

AMENDED CLAIMS REWRITTEN IN CLEAN FORM:

1. (Amended) A method for enhanced magnetic resonance imaging of a target tissue *in vivo* in a patient, the method comprising:

(1) administering systemically to the patient,

(a) a site-specific ligand; and

(b) a liquid emulsion having an outer surfactant coating;

said ligand being conjugated to said liquid emulsion; wherein upon binding to the target tissue, the ligand-liquid emulsion conjugate enhances magnetic resonance imaging of the target tissue and

(2) detecting the enhanced magnetic resonance image of the ligand-liquid emulsion conjugate bound to the target tissue.

Please Cancel Claim 4 without prejudice or disclaimer

8. (Amended) A composition for enhancing magnetic resonance imaging of a target tissue *in vivo* in a patient, said composition comprising:

(a) a site-specific ligand; and

(b) a liquid fluorocarbon emulsion having an outer surfactant coating;

said ligand being conjugated to said liquid emulsion wherein the composition is suitable for systemic administration to a patient and whereby upon imaging the target tissue by magnetic resonance, an enhanced image of the ligand-liquid emulsion conjugate bound to the target tissue can be detected.

Please add Claims 11-19.

11. (New) A method as set forth in claim 1 wherein said liquid emulsion is a perfluorocarbon emulsion.

12. (New) A method as set forth in claim 1 wherein said liquid emulsion additionally contains a chemotherapeutic agent.

13. (New) A method as set forth in claim 8 wherein said liquid emulsion is a perfluorocarbon emulsion.

14. (New) A method as set forth in claim 8 wherein said liquid emulsion additionally contains a chemotherapeutic agent.

15. (New) A composition for enhancing magnetic resonance imaging of a target tissue *in vivo* in a patient, said composition comprising:

(b) a site-specific ligand; and

(b) a liquid emulsion having an outer surfactant coating and a particle size between approximately 0.05 to 5 microns diameter;

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said ligand being conjugated to said liquid emulsion wherein the composition is suitable for systemic administration to a patient and whereby upon imaging the target tissue by magnetic resonance, an enhanced image of the ligand-liquid emulsion conjugate bound to the target tissue is detected.

16. (New) A composition as set forth in claim 15 wherein said ligand is conjugated to said emulsion through an intervening chemical group.

17. (New) A composition as set forth in claim 16 wherein said intervening chemical group is constituted by a hydrocarbon spacer.

18. (New) A composition as set forth in claim 15 wherein said liquid emulsion is a perfluorocarbon emulsion.

19. (New) A composition as set forth in claim 15 wherein said liquid emulsion additionally contains a chemotherapeutic agent.